

What is claimed is:

1. A light-sensitive sensor unit (10), in particular for automatic switching of lighting devices, preferably in motor vehicles, including at least two light-sensitive sensors (12) which are provided with light guide elements (14, 14a) having a predeterminable reception characteristic, at least one first sensor (12) detecting the global lighting conditions, and at least one second sensor (12) detecting the lighting conditions in predetermined directions, wherein the light guide elements (14, 14a) provided for the sensors (12) are joined in one piece to form a light guide body (18).
2. The sensor unit according to Claim 1, wherein at least three sensors (12) detect light from predetermined directions.
3. The sensor unit according to one of Claims 1 or 2, wherein at least one sensor (12) is aligned with a predetermined direction in the direction of travel of a vehicle.
4. The sensor unit according to one of Claims 1 through 3, wherein at least one sensor (12) which detects the lighting conditions in a predetermined direction forms an angle  $\alpha$  with a straight line in the direction of travel of a vehicle.
5. The sensor device according to Claim 4, wherein two sensors (12) on each side each enclose an angle  $\alpha$  with a straight line pointing in the direction of travel and have a common light-sensitive sensor element (13).
6. The sensor device according to one of Claims 1 through 5, wherein there is a smooth transition between the light guide elements (14, 14a).

7. The sensor device according to one of the preceding claims,  
wherein the light detection cones of the light guide elements (14, 14a) overlap.

8. The sensor device according to one of the preceding claims,  
wherein the sensor elements (13) are designed as sensor elements (13) which  
distinguish between daylight and artificial light.

9. The sensor device according to one of the preceding claims,  
wherein the analyzer unit (15) is designed as an analyzer unit (15) which  
distinguishes between daylight and artificial light.

10. The sensor device according to one of the preceding claims,  
wherein the light guide body (17) is integrated into a light guide body of a rain sensor  
device.

11. The sensor device according to Claim 8,  
wherein the light guide body (17) is manufactured in a multicomponent injection  
molding process, in particular together with the light guide body of the rain sensor  
and a coupling medium.

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